In the claims:

1. (Previously Amended) An airborne particle impaction sampler, comprising:

a base;

a microscope slide disposed on said base;

an adhesive media located on said microscope slide to assist in adhering airborne particles on said microscope slide;

a top cap secured to said base, said top cap having an inlet opening formed therethrough, said inlet opening being configured as a slit;

said inlet opening having an outer venturi section and an inner laminar section such that air entering the sampler impacts said adhesive media.

- 2. (Previously Amended) The sampler of claim 1, wherein said inlet opening has a pair of generally straight opposing side portions and a pair or arcuate end portions.
- 3. (Original) The sampler of claim 2, wherein said venturi section has a pair of oval sides that extend generally inward from a respective one of said arcuate end portions.
- 4. (Original) The sampler of claim 3, wherein said venturi section has a pair of opposing side surfaces that converge towards one another.
- 5. (Original) The sampler of claim 1, wherein said top cap telescopically fits over said base.
- 6. (Original) The sampler of claim 1, wherein said base has a groove formed in its outer surface and an o-ring disposed in said groove to prevent air from leaking into said sampler when said top cap is secured to said base.

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- The sampler of claim 1, further comprising: (Original) a vacuum source attached to the sampler for drawing air therein.
- (Currently Amended) A method of gathering airborne particles in 8. an air sampler, comprising:

providing a microscope slide;

preparing said microscope slide with an adhesive media;

loading said slide into the sampler;

assembling a top portion of the sampler to a base portion;

connecting a vacuum source to an outlet opening of the sampler;

drawing air into an inlet opening formed in said top portion of the sampler, said inlet opening being substantially smaller than an upper surface of said top portion;

accelerating air in an inlet passageway after it enters said inlet opening; and

directing the air such that it impacts said adhesive media in a perpendicular direction by passing the air through a generally laminar portion of said inlet opening passageway.

- The method of claim 8, wherein said adhesive 9. (Original) media is applied to a middle two-thirds portion of said microscope slide.
 - 10. (Original) The method of claim 8, further comprising: precalibrating said vacuum source.
- The method of claim 10, further comprising: 11. (Original) calibrating said vacuum source on-line during the gathering of airborne particles.

Claims 12 – 19 (cancelled).

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20. (Previously Amended) An airborne particle impaction sampler comprising:

a housing;

a slide disposed within said housing:

a coating disposed on said slide to assist in adhering airborne particles on said slide;

a inlet formed in said housing in proximity to said slide;

a passageway in communication with said inlet to convey air entering the sampler to said slide, said passageway having an venturi section located adjacent said inlet and a laminar section;

said passageway having a non-circular opening adjacent said slide to direct the air at the slide in a generally elongated fashion.

- 21. (Original) The sampler of claim 20, wherein said laminar section is located adjacent said venturi section.
- 22. (Currently Amended) A method of gathering airborne particles into an impaction sampler comprising:

providing a housing:

locating a microscope slide in said housing, said microscope slide having an adhesive media applied thereon;

drawing air through a small opening formed in said housing and into a passage located adjacent said microscope slide;

accelerating said drawn air in first portion of said passage after it has passed through said opening;

passing said accelerated air from said first portion to a second portion, said second portion having a smaller diameter side to side distance than said first portion; said second portion having an opening adjacent said microscope slide that is non-circular in shape.

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- 23. (Original) The method of claim 22 wherein said step of drawing air further comprises connecting a vacuum source to an outlet opening of the sampler.
- 24. (Original) The method of claim 22, wherein said opening is configured in the shape of a slit.
- 25. (Original) The method of said passage of claim 22 wherein said first portion is a venturi portion and said second portion of said passage is a laminar portion.
- 26. (Original) The method of claim 22, further comprising:
 directing the air such that it impacts said adhesive media in a substantially perpendicular direction.
- 27. (Currently Amended) A bioaerosol impaction sampling device, comprising:
- a housing including a first portion and a second portion which are in releasable engagement with each other;
- a slide disposed in said housing and in communication with an inlet passageway formed in said housing;
- a recessed portion being formed in said housing and sized to receive at least a portion of said slide;
- said housing having a bore formed adjacent to said recessed portion, said bore being sized such that air can flow around said microscopic slide and into an outlet opening;
- a <u>remote</u> vacuum source in communication with said outlet opening; and said inlet passageway having an outer inlet opening and an inner inlet opening, wherein said outer inlet opening is larger than said inner inlet opening.

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- 28. (Original) The device of claim 27, wherein said first portion is a top cap and said second portion is a base.
- 29. (Original) The device of claim 28, wherein said inlet passageway is formed in said top cap.
- 30. (Original) The device of claim 28, wherein said recess is formed in said base.
- 31. (Original) The device of claim 27, wherein said inner inlet opening is configured as a slit.
- 32. (Original) The device of claim 31, wherein said slit is generally rectangular.
- 33. (Original) The device of claim 23, wherein said inlet passageway has a venturi portion.
- 34. (Original) The device of claim 27 wherein said inlet passageway has a laminar portion and a venturi portion with said laminar portion being located adjacent said inner inlet opening.
- 35. (Currently Amended) An impaction air sampler, comprising:
 a housing having an upper portion and a lower portion;
 a retaining mechanism formed in said housing for holding a slide placed therein;

an inlet passageway being formed in said housing adjacent said slide; said housing having a bore, which is sized to allow air to flow around said slide; and

an outlet passage in communication with said bore at one end and a remote vacuum source located exterior to said housing at another end.

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- 36. (Original) The sampler of claim 35, wherein said retaining mechanism is a recess.
- 37. (Currently Amended) The sampler of claim 35, wherein said inlet passageway is formed in said upper portion of said housing.
- 38. (Original) The sampler of claim 35, wherein said inlet passageway has a venturi portion.
- 39. (Original) The sampler of claim 35, wherein said inlet passageway has a laminar portion.
- 40. (Original) The sampler of claim 39, wherein said inlet passageway has a venturi portion with said laminar portion being located adjacent said slide.
- 41. (Original) The sampler of claim 35, wherein said inlet passageway has an inner inlet opening that is configured as a slit.
- 42. (Original) The sampler of claim 41, wherein said slit has a generally rectangular shape.